

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **11013675 A**

(43) Date of publication of application: **19.01.99**

(51) Int. Cl.

**F04C 29/10**  
**F04C 18/16**

(21) Application number: **09164095**

(22) Date of filing: **20.06.97**

(71) Applicant: **HITACHI LTD**

(72) Inventor: **YAMAZAKI NORIYUKI**  
**NOZAWA SHIGEKAZU**  
**URASHIN MASAYUKI**

(54) **CAPACITY CONTROL DEVICE FOR SCREW COMPRESSOR**

COPYRIGHT: (C)1999,JPO

(57) Abstract:

**PROBLEM TO BE SOLVED:** To perform both staged control and continuous control without exchange of a screw compressor body or decomposing and modifying a compressor but only by varying the external connection part of a screw compressor.

**SOLUTION:** In this device, the slide valve side 24a of a cylinder chamber to contain a piston coupled to a slide valve is communicated with the high pressure side. During step control, the anti-slide valve side 24b is communicated with the high pressure side and the high pressure side through solenoid valves 21a, 21b, and 21c and a capillary tube 26a and control is performed by a solenoid valve. During continuous control, the solenoid valves 21b and 21c and capillary tubes 26b and 26c are removed and solenoid valves 21d and 21e and capillary tubes 26b and 26 are connected, and control is effected through the respective solenoid valves. Thus, only by exchanging the external part of a compressor, the step control and continuous control are switchable.

